

ABSTRACT OF THE DISCLOSURE

A piezoelectric sheet, ~~which comprises~~ includes a matrix comprising a polyimide, ~~or a~~ silicone rubber or an epoxy resin, and ~~[[a]]~~ at least one cubic lead zirconate titanate single-crystal particle dispersed in the matrix, wherein (100) plane of ~~said~~ the at least one single-crystal particle is oriented parallel to a plane of ~~said~~ the sheet, and ~~said~~ the at least one single-crystal particle penetrates the plane of ~~said~~ the sheet from one to the other side. ~~Conventionally, since the constituent crystal particles are randomly oriented, properties of the crystal particles are obtained as the average values of the properties of the individual particles. In contrast, according to the piezoelectric sheet of the present invention, since the cubic PZT single-crystal particles have been disposed so that (100) axes are oriented perpendicularly to the plane of the sheet, the PZT can have the properties inherent in the (100) planes.~~